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quantum key with optical switch

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### Quantum cryptography using larger alphabets - all 4 versions »

H Bechmann-Pasquinucci, W Tittel - Physical Review A, 2000 - APS

... Hence, the first **switch** in the preparation device has ... be replaced by a symmetric 134 **optical** coupler. ... Schematical setup for four-letter **quantum key** distribution ...

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### Conditional efficient multiuser quantum cryptography network - all 4 versions »

P Xue, CF Li, GC Guo - Physical Review A, 2002 - APS

... in the incident states would be so small that all the **key** bits can be ... needed by our scheme, such as the "space **optical switch**," the **quantum** random number ...

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### Experimental investigation of quantum key distribution through transparent optical switch elements - all 2 versions »

P Toliver, RJ Runser, TE Chapuran, JL Jackel, TC ... - Photonics Technology Letters, IEEE, 2003 - ieeexplore.ieee.org

... Abstract—**Quantum key** distribution (QKD) enables uncondi- tional ... the distribution of cryptographic **key** material. ... QKD transmission through **optical** switches, we ...

Cited by 4 - Related Articles - Web Search - BL Direct

### Secure direct communication with a quantum one-time pad - all 6 versions »

FG Deng, GL Long - Physical Review A, 2004 - APS

... text is encrypted with a random **key** as the ... and IL Chuang, **Quantum** Computation and **Quantum** Information (Cambridge ... check; SR represents an **optical** delay; **switch** ...

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### Long distance decoy state quantum key distribution in optical fiber - all 6 versions »

D Rosenberg, JW Harrington, PR Rice, PA Hiskett, ... - Arxiv preprint quant-ph/0607186, 2006 - arxiv.org

... the sender (Alice) preparing a single photon in a **quantum** state and ... eventually leading to such high error rates that secret **key** generation is ... **Optical switch** ...

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### Faint laser quantum key distribution: eavesdropping exploiting multiphoton pulses - all 13 versions »

S Félix, N Gisin, A Stefanov, H Zbinden - Journal of Modern Optics, 2001 - Taylor & Francis

... Figure 1. Eve's set-up for strategy A: S  $\frac{1}{4}$  **optical switch**, PBS  $\frac{1}{4}$  polarization beam splitter, C  $\frac{1}{4}$  photon counter. ... Faint laser **quantum key** distribution 2015 ...

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### Quantum Cryptography with Polarized Photons in Optical Fibres - all 3 versions »


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M Bourennane, A Karlsson, G Björk - Physical Review A, 2001 - APS

[Quantum key distribution using multilevel encoding. Mohamed Bourennane ... strategies.](#)[QUANTUM KEY DISTRIBUTION USING MULTILEVEL ... PHYSICAL ...](#)[Cited by 68 - Related Articles - Web Search - BL Direct](#)[H Lo](#)[Controlled order rearrangement encryption for quantum key distribution - all 6 versions »](#)

FG Deng, GL Long - Physical Review A, 2003 - APS

Controlled order rearrangement encryption for **quantum key** distribution. ... A technique is devised to perform orthogonal state **quantum key** distribution. ...[Cited by 60 - Related Articles - Web Search - BL Direct](#)[A Proof of the Security of Quantum Key Distribution - all 11 versions »](#)

E Biham, M Boyer, PO Boykin, T Mor, V Roychowdhury - Journal of Cryptology, 2006 - Springer

... A Proof of the Security of **Quantum Key Distribution** □ Eli ... Page 3. A Proof of the Security of **Quantum Key Distribution** 383 proven ...[Cited by 80 - Related Articles - Web Search - BL Direct](#)[Quantum key distribution without alternative measurements - all 6 versions »](#)

A Cabello - Physical Review A, 2000 - APS

[Quantum key distribution without alternative measurements. Adán ... A quantum key distribution protocol based on this idea is described. The ...](#)[Cited by 57 - Related Articles - Web Search - BL Direct](#)[Quantum Key Distribution with Bright Entangled Beams - all 8 versions »](#)

C Silberhorn, N Korolkova, G Leuchs - Physical Review Letters, 2002 - APS

[Quantum Key Distribution with Bright Entangled Beams. Ch. Silberhorn, N. Korolkova, and G. Leuchs Zentrum für Moderne Optik an der ...](#)[Cited by 54 - Related Articles - Web Search - BL Direct](#)[Proof of security of quantum key distribution with two-way classical communications - all 9 versions »](#)

D Gottesman, HK Lo - Information Theory, IEEE Transactions on, 2003 - ieeexplore.ieee.org

... Proof of Security of **Quantum Key Distribution** With ... These facts can help direct experimentalists toward the most robust schemes for **quantum key** distribution. ...[Cited by 58 - Related Articles - Web Search - BL Direct](#)[Fast and user-friendly quantum key distribution - all 13 versions »](#)

GREÅG RIBORDY - Journal of Modern Optics, 2000 - Taylor &amp; Francis

... Abstrac t. Some guidelines for the comparison of di erent **quantum key** distribution experiments are proposed. An improved 'plug ...[Cited by 44 - Related Articles - Web Search - BL Direct](#)[Security of Quantum Key Distribution - all 8 versions »](#)

R Renner - Arxiv preprint quant-ph/0512258, 2005 - arxiv.org



quantum key distribution

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## Patents

Patents 1 - 10 on quantum key distribution. (0.15 seconds)

### Quantum key distribution using non-orthogonal macroscopic signals

US Pat. 5515438 - Filed Nov 24, 1993 - International Business Machines Corporation

**Quantum key distribution** (henceforth QKD) allows two users to agree on a secret key in a similarly impromptu manner, just before it is needed, ...

### Interferometric quantum cryptographic key distribution system

US Pat. 5307410 - Filed May 25, 1993 - International Business Machines Corporation

The logistic problems of **key distribution** and storage are so great that many applications, such as secure telephones, instead use purely mathematical ...

### System and method for key distribution using quantum cryptography

US Pat. 5675648 - Filed Aug 15, 1995 - British Telecommunications public limited company

... **key distribution** ... quantum ...

### Method for key distribution using quantum cryptography

US Pat. 5764765 - Filed Apr 22, 1996 - British Telecommunications public limited company

... **key distribution** ... quantum ...

### Key distribution in a multiple access network using quantum cryptography

US Pat. 5768378 - Filed Mar 7, 1996 - British Telecommunications public limited company

65 made sufficiently large, say 105 photons, that the standard **The quantum key distribution** channel is arranged to detector registers a pulse which can be ...

### Quantum key distribution method and apparatus

US Pat. 6678379 - Filed Jun 18, 1999 - NEC Corporation

The **quantum key distribution** method is currently the only 45 known method whereby shared keys necessary for the implementation of unconditionally secure ...

### Optical pulse calibration for quantum key distribution

US Pat. 7242775 - Filed Nov 12, 2003 - MagiQ Technologies, Inc.

... A2 9/2001 OTHER PUBLICATIONS Stucki et al, "Quantum Key Distribution over 67 km with a plug and play system," New Journal of Physics 4 (2002) 41.1-41.8. ...

### Single-photon watch dog detector for folded quantum key distribution system

US Pat. 7227955 - Filed Sep 25, 2003 - Magiq Technologies, Inc.

Stucki et al, "Quantum Key Distribution over 67km with a Plug & Play System", New Journal of Physics 4 (2002) 41.1-41.8. Gisin et al, "Quantum Cryptography" ...

### Method and apparatus for free-space quantum key distribution in daylight

US Pat. 6748083 - Filed Apr 27, 2001 - The Regents of the University of California

... **quantum key distribution** ...

### System and method for key distribution using quantum cryptography

US Pat. 5850441 - Filed Mar 8, 1996 - British Telecommunications public limited company


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[W Buttler](#)
[R Hughes](#)

### Quantum key distribution over 122 km of standard telecom fiber - all 11 versions »

C Gobby, ZL Yuan, AJ Shields - Arxiv preprint quant-ph/0412171, 2004 - arxiv.org

1 **Quantum key distribution over 122 km of standard telecom fiber** ... Figure 1 A schematic diagram showing the **fiber** optic **quantum key** distribution (QKD) system ...

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### Quantum key distribution over distances as long as 30 km - all 6 versions »

C Marand, PD Townsend - Optics Letters, 1995 - OSA

... 9,10 Here we describe fully secure **quantum key** distribution over as long as 30 km of optical **fiber** and characterize the effects of error correction and pri ...

Cited by 157 - Related Articles - Web Search - BL Direct

### Practical quantum cryptography based on two-photon interferometry - all 5 versions »

AK Ekert, JG Rarity, PR Tapster, G Massimo Palma - Physical Review Letters, 1992 - APS

... of a **quantum** channel which distributes the **key** and protects ... eavesdropping using the nature of **quantum** correlations ... are launched into separate **fiber-optic** cables ...

Cited by 183 - Related Articles - Web Search

### Quantum cryptography using any two nonorthogonal states - all 5 versions »

CH Bennett - Physical Review Letters, 1992 - APS

... 47, 777 (1935) [SPIRES]; D. Bohm, **Quantum** Theory (Prentice ... consisting of two half-interferometers joined by a **fiber**. ... Bob can derive a secret **key** by subsequent ...

Cited by 828 - Related Articles - Web Search

### An autocompensating fiber-optic quantum cryptography system based on polarization splitting of light - all 3 versions »

DS Bethune, WP Risk, IBMAR Center, CA San Jose - **Quantum** Electronics, IEEE Journal of, 2000 - ieeexplore.ieee.org

... We have developed a system for **quantum key** distribution (QKD), based on standard telecommunication lasers, detectors, and optical **fiber**, that passively ...

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### Daylight Quantum Key Distribution over 1.6 km - all 6 versions »

WT Buttler, RJ Hughes, SK Lamoreaux, GL Morgan, JE ... - Physical Review Letters, 2000 - APS

... SF Seward et al., **Quantum** Opt. ... bright pulses by using longer MM fibers on the **key-bit** detector ... The MM fiber-coupled SPCM is a EG&G Canada Ltd., Optoelectronics ...

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### Quantum Key Distribution with Bright Entangled Beams - all 8 versions »

C Silberhorn, N Korolkova, G Leuchs - Physical Review Letters, 2002 - APS

... can easily infer **h fi** 1 in the **quantum** channel ... The information on the **key** is thus emerging only a ... simple and robust and well suited for both **fiber**-integrated or ...